

Application No.: 10/763,687
94 C.F.R. § 1.53 (b): continuation
of Serial No. 09/359,809
Substitute Second Preliminary Amendment
Dated: December 7, 2005

Amendments to the claims:

The listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-89 (cancelled without prejudice or disclaimer)

90 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a solid lubricant, wherein said solid lubricant is an inorganic compound, carbon or metal that provides barrier-layer lubrication, or mixtures thereof, and wherein said product optionally contains a material comprising a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

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91 (new): The lubricant composition of claim 59, wherein said solid lubricant is graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium oxide, cadmium iodide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

92 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a solid organic lubricant, and wherein said product optionally contains a material comprising a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

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93 (new): The lubricant composition of claim 92, wherein said solid organic lubricant is a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or copolymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

94 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a solid lubricant and water, optionally containing a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

95 (new): The lubricant composition of claim 94, wherein said solid lubricant is graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium chloride, cadmium oxide, cadmium iodide, borax,

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basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, carbon, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, the Group VIII noble metals, a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

96 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a phosphate, and wherein said product optionally contains a material comprising a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

97 (new): The lubricant composition of claim 96, wherein said material for decreasing friction is zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.

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98 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a soap, and wherein said product optionally contains a material comprising a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

99 (new): The composition of claim 90 wherein said solid lubricant comprises the chalcogenides of a non-noble metal and mixtures of said lubricant.

100 (new): The composition of claim 94 wherein said solid lubricant comprises the chalcogenides of a non-noble metal and mixtures of said lubricant.

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101 (new): The composition of claim 90 wherein said solid lubricant comprises the chalcogenides of molybdenum, antimony, niobium, and tungsten and mixtures of said lubricant.

102 (new): The composition of claim 94 wherein said solid lubricant comprises the chalcogenides of molybdenum, antimony, niobium, and tungsten and mixtures of said lubricant.

103 (new): The composition of claim 90 wherein said solid lubricant comprises the sulfides of molybdenum, antimony, niobium, and tungsten and mixtures of said lubricant.

104 (new): The composition of claim 94 wherein said solid lubricant comprises the sulfides of molybdenum, antimony, niobium, and tungsten and mixtures of said lubricant.

105 (new): The composition of any one of claims 99, 101, and 103 wherein said mixture comprises a two component mixture of said lubricants.

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106 (new): The composition of any one of claims 100, 102, and 104 wherein said mixture comprises a two component mixture of said lubricants.

107 (new): The composition of any one of claims 99, 101, and 103 wherein said mixture comprises a three component mixture of said lubricants.

108 (new): The composition of any one of claims 100, 102, and 104 wherein said mixture comprises a three component mixture of said lubricants.

109 (new): The composition of any one of claims 99, 101, and 103 wherein said mixture comprises a four component mixture of said lubricants.

110 (new): The composition of any one of claims 100, 102, and 104 wherein said mixture comprises a four component mixture of said lubricants.

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111 (new): A lubricant composition comprising a product produced by the process of combining a polymer comprising a superabsorbent polymer with a material for decreasing friction between moving surfaces, wherein said superabsorbent polymer absorbs greater than about 100 times its weight in water and is a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof, wherein said material for decreasing friction comprises a grease, and wherein said product optionally contains a material comprising a lubricant additive, wherein said lubricant additive is an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor.

112 (new): The composition of any one of claims 90-93, 96-99, 101, 103, and 111 wherein said composition is substantially anhydrous.

113 (new): The composition of claim 105 wherein said composition is substantially anhydrous.

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114 (new): The composition of claim 107 wherein said composition is substantially anhydrous.

115 (new): The composition of claim 109 wherein said composition is substantially anhydrous.